

Safety Data Sheet

According to Regulation EC No. 1907/2006

K 27 GP Polyester-Repair Resin

Date of issue/Date of revision: 01.08.2023

en / GB - Version 2.0

1. Identification of the substance/preparation and of the company/undertaking**1.1 Identification of the substance or preparation:**

K 27 GP Polyester Repair Resin

UFI:

6WTD-UW2F-920R-EUYY

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Use of the substance/preparation:

Knife filler/Surfacers

1.3 Company/undertaking identification

Company name:

Gößl + Pfaff GmbH

Street:

Münchener Str. 13

Place:

85123 Karlskron/Brautlach

Telephone:

+49 (0) 8450 / 932-0

Fax.:

+49 (0) 8450 / 932-13

Contact person:

Management: Mr. Gössl, Mr. Pfaff

E-Mail:

info@goessl-pfaff.de

Internet:

www.goessl-pfaff.de

Responsible Department:

Management

1.4 Emergency telephone number:**Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463****2. Hazards identification****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 12/2008



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Eye Irrit. 2 H319 Causes serious eye irritation.

Stot SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms**Signal word: danger**

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Hazard-determining components of labelling:

styrene
maleic anhydride

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.
H335 May cause respiratory irritation.
H372 Causes damage to the hearing organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3. Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	Styrene Flam.Liq. 3, H226; Repr.2, H361d; STOT RE 1, H372; Asp.Tox.1, H304; Akut Tox. 4, H332; Skin Irrit. 2, H315, Eye Irrit. 2, H319, STOT SE 3, H335; Aquatic Chronic 3, H412	25 – 50 %
CAS: 108-31-6 EINECS: 203-571-6 Reg.nr.: 01-2119472428-31	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥0.001 %	≥0.001 – <0.1%

Additional information: For the wording of the listed hazard phrases refer to section 16.

4. First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

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After skin contact:

Immediately rinse with water.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

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Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Storage class: 3

7.3 Specific end use(s)

No further relevant information available.

8. Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
100-42-5 styrene	
WEL	Short-term value: 1080 mg/m ³ , 250 ppm Long-term value: 430 mg/m ³ , 100 ppm
108-31-6 maleic anhydride	
WEL	Short-term value: 3 g/m ³ Long-term value: 1 mg/m ³ , Sen

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls

No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

Respiratory protection:

Filter A/P2 (EN 141, EN 143)



In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves (EN 374)

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Material of gloves

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Breakthrough time of glove material

Value for the permeation: Level ≤ 6

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range:	145.2 °C (100-42-5 Styrene)
Flammability	Flammable.

Lower and upper explosion limit

Lower:	1.2 Vol % (100-42-5 Styrene)
Upper:	8.9 Vol % (100-42-5 Styrene)
Flash point:	33 °C (DIN 53213)
Auto-ignition temperature:	480 °C (DIN 51794, 100-42-5 Styrene)
Decomposition temperature:	Not determined.
pH:	Not determined.

Viscosity

Kinematic viscosity:	Not determined.
Dynamic at 20 °C:	1,900–2,500 mPas

Solubility

water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure at 20 °C:	6 hPa (100-42-5 Styrene)
Vapour pressure at 50 °C:	35 hPa

Density and/or relative density

Density at 20 °C:	1,15 g/cm ³ (DIN 53217)
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information

Appearance

Form:	Viscous
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Important information on protection of health and environment, and on safety.

Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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Solvent content

VOC (EC) 0,00 %

Solids content (weight-%): 70,5 %

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives:	Void
Flammable gases:	Void
Oxidising gases:	Void
Gases under pressure:	Void
Flammable liquids:	Flammable liquid and vapour.
Flammable solids:	Void
Self-reactive substances and mixtures:	Void
Pyrophoric liquids:	Void
Pyrophoric solids:	Void
Self-heating substances and mixtures:	Void
Substances and mixtures, which emit flammable: gases in contact with water:	Void
Oxidising liquids:	Void
Oxidising solids:	Void
Organic peroxides:	Void
Corrosive to metals:	Void
Desensitised explosives:	Void

10. Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

Carbon monoxide

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

100-42-5 Styrene

Oral	LD50	5.000 mg/kg (rat)
Dermal	LD50	> 2.000 mg/kg (rat)
Inhalative	LC50 /4 h	11.8 mg/l (rat)

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Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Reproductive toxicity:

Suspected of damaging the unborn child.

STOT-single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

Causes damage to the hearing organs through prolonged or repeated exposure.

12. Ecological information

12.1 Toxicity

Aquatic toxicity:

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark:

Harmful to fish

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

13. Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

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14. Transport information**14.1 UN-Number or ID-Number**

ADR, IMDG, IATA: UN1866

14.2 UN proper shipping nameADR: UN1866 RESIN SOLUTION
IMDG, IATA: RESIN SOLUTION**14.3 Transport hazard class(es)**

ADR:

Class: 3 (F1) Flammable liquids.
Label: 3

IMDG, IATA:

Class: 3 Flammable liquids.
Label: 3**14.4 Packing group**

ADR, IMDG, IATA: III

14.5 Environmental hazards:

Marine pollutant: No.

14.6 Special precautions for userWarning: Flammable liquids.
Danger code (Kemler): 30
EMS Number: F-E, S-E
Stowage Category: A**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

Transport/additional information:**ADR:**Limited quantities (LQ): 5 L
Transport category: 3
Tunnel restriction code: D/E
Remarks: ≤ 450 l: 2.2.3.1.5 ADR**IMDG:**Limited quantities: 5L
Remarks: ≤ 5 l: 2.2.3.1.5 IMDG

UN "Model Regulation": UN1866, RESIN SOLUTION, III

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements: 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements: 50,000 t

National regulations:

Additional classification according to Decree on Hazardous Materials, Annex II:

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Class	Share in %
NK	25–50

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

Relevant phrases

H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H361d Suspected of damaging the unborn child.
 H372 Causes damage to the hearing organs through prolonged or repeated exposure.
 H412 Harmful to aquatic life with long lasting effects.
 EUH071 Corrosive to the respiratory tract.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.